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International application No. PCT/JP03/07893

A. CLASSIFICATION OF SUBJECT MATTER Int.Cl ⁷ G06F1/16, H05K5/02, H05K7/18				
According to International Patent Classification (IPC) or to both national classification and IPC				
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols)				
Int.	Cl' G06F1/16, H05K5/02, H05K//1	0	in the fields searched	
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Jitsuyo Shinan Koho 1922–1996 Toroku Jitsuyo Shinan Koho 1994–2003 Kokai Jitsuyo Shinan Koho 1971–2003 Jitsuyo Shinan Toroku Koho 1996–2003				
Electronic da	ata base consulted during the international search (name	of data base and, where practicable, sear	ch terms used)	
	•			
C. DOCU	MENTS CONSIDERED TO BE RELEVANT			
Category*	Citation of document, with indication, where appropriate the company of the compa	ropriate, of the relevant passages	Relevant to claim No.	
Y . A	JP 3066062 U (Tomi KANKAWA), 18 February, 2000 (18.02.00), Full text; Figs. 1 to 9 (Family: none)		1,11,12 2-10	
Y A	JP 3076911 U (Seiseikagi Kofu 27 April, 2001 (27.04.01), Full text; Figs. 1 to 5 (Family: none)	n Yugenkoshi),	1,11,12 2-10	
A	JP 10-303579 A (Hitachi, Ltd. 13 November, 1998 (13.11.98), Full text; Figs. 1 to 14 (Family: none)	.),	2-10	
X Furth	er documents are listed in the continuation of Box C.	See patent family annex.		
Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance.		T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art document member of the same patent family		
Date of the 09	e actual completion of the international search September, 2003 (09.09.03)	Date of mailing of the international se 24 September, 2003	arch report 3 (24.09.03)	
Name and mailing address of the ISA/ Japanese Patent Office		Authorized officer		
Facsimile No.		Telephone No.		



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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT			
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	
A	JP 3086292 U (Kyofuku Kogyo Yugenkoshi), 14 June, 2002 (14.06.02), Full text; Figs. 1 to 4 (Family: none)	1-12	
	JP 3068582 U (Kabushiki Kaisha Sotekku), 12 May, 2000 (12.05.00), Full text; Figs. 1 to 4 (Family: none)	1-12	